

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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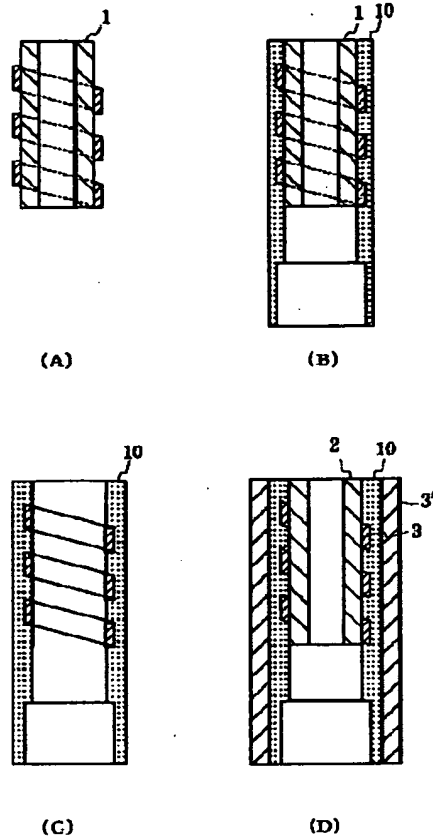
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TITLE : METHOD OF PARTIAL PLATING  
INSIDE THE CYLINDRICAL  
STRUCTURE



ABSTRACT : PROBLEM TO BE SOLVED: To provide a method for making helical-shaped plating or at least one loop plating, in equal thickness at uniform pitch, on at least some inner surface of a narrow cylindrical structure with its diameter of a few mm or so.

SOLUTION: The method comprises (1) a process to form an insoluble cylinder 10 which has helical groove section or at least one loop groove section on at least some portion of its inner surface and the said groove section has a gate hole, (2) a process to form a helical or at least one loop soluble synthetic resin layer 3 on at least some inner surface portion of the said cylinder by inserting a inner nest 2 providing a straight pin section with the same outer diameter as the inner diameter of the said insoluble cylinder into the said cylinder and injecting soluble synthetic resin via the said gate hole, (3) a process to rough at least inner surface of the said cylinder after removal of the said inner nest, (4) a process to provide a catalyst for plating after the said soluble synthetic resin layer is melted and removed or to melt and remove the said soluble synthetic resin layer after providing a catalyst for plating, and (5) a process to make plating.

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